

MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

AD

PROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

AD A 128386

METEOROLOGICAL DATA REPORT
19318C MLRS
Missile Numbers BN-216, BN-223, BN-210, BN-187, BN-186, BN-202
Round Numbers V-366/OT-1, V-367/OT-2, V-368/OT-3, V-369/OT-4,
V-370/OT-5, V-371/OT-6

by

DONALD C. KELLER Program Support Coordinator Phone Number (505) 679-9568 AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

TIC THE COP

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

DTIC ELECTE JAN 1 3 1983

E

83 01 13 022

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

| REPORT DOCUMENTATION PAGE  | BEFORE COMPLETING FORM  |
|--|---|
| DR 1275 AD-AZ  | 23 436  |
| 4. TITLE (and Substite) 19318C MLRS Missile Numbers BN-216, BN-223, BN-210, BN-187, BN-186, BN-202, Round Numbers V-366/0T-1, V-367/ OT-2, V-368/OT-3, V-369/OT-4, V-370/OT-5,V-371/OT       | 6. PERFORMING ORG. REPORT NUMBER  |
| 7. AuThor(a) White Sands Meteorological Team   | DA Task 1F665702D127-02   |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS  | 10. PROGRAM ELEMENT, PROJECT, TASK<br>AREA & WORK UNIT NUMBERS                                |
| US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Pages New Movice 88002  | 12. REPORT DATE NOVEMBER 1982  13. NUMBER OF PAGES 25   |
| White Sands Missile Range. New Mexico 88002  14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)  US Army Electronics Research and Development Cmd  Adelphi, MD 20783 | 15. SECURITY CLASS. (of this report)  UNCLASSIFIED  15. DECLASSIFICATION/DOWNGRADING SCHEDULE |
| 16. DISTRIBUTION STATEMENT (of this Report)  |   |
| 17. DISTRIBUTION STATEMENT (of the ebetract entered in Block 20, if different from Approved for public release; distribution unlimited   |   |
| 18. SUPPLEMENTARY NOTES  |   |
| 19. KEY WORDS (Continue on reverse elde II necessary and identify by block number)   |   |
| Meteorological data gathered fo the launching of the Numbers BN-216, BN-223, BN-210, BN-187, BN-186, BN V-366/OT-1, V-367/OT-2, V-368/OT-3, V-369/OT-4, V-presented in tabular form.         | N-202, Round Missiles   |

THE REPORT OF THE PROPERTY OF

|          | CUNIENIS   | PAGE |
|----------|--|------|
| INTRODUC | TION   | 1    |
|          |  |      |
| GENERAL  | AREA MAP   | : 2  |
| LAUNCH A | REA DIAGRAM  | 3    |
| TABLES:  |  |      |
| 1.       | Surface Observations taken at 1000 MST at LC-33  | 4    |
| 2.       | Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole taken at 1000 MST             | 5    |
| 3.       | Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 1000 MST | · 5  |
| 4.       | Launch and Impact Pilot-Balloon Measured Wind Data   | 6    |
| 5.       | Aiming and T-Time Computer Met Messages  | . 7  |
| 6.       | LC-37 Significant Level Data at 0800 MST   | 8    |
| 7.       | LC-37 Upper Air Data at 0800 MST   | 10   |
| 8.       | LC-37 Mandatory Levels at 0800 MST   | 15   |
| 9.       | WSD Significant Level Data at 0830 MST   | 16   |
| 10.      | WSD Upper Air Data at 0830 MST   | 17   |
| 11.      | WSD Mandatory Levels at 0830 MST   | 18   |
| 12.      | WSD Significant Level Data at 1000 MST   | 19   |
| 13.      | WSD Upper Air Data at 1000 MST   | 20   |
| 14.      | WSD Mandatory Levels at 1000 MST   | 21   |

### INTRODUCTION

19318C MLRS, Missile Numbers BN-216, BN-223, BN-210, BN-187, BN-186 and BN-202, Round Numbers V-366/OT-1, 367/OT-2, V-368/OT-3, V-369/OT-4, V-370/OT-5 and V-371/OT-6, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1000:00, 1000:04, 1000:09, 1000:13, 1000:18 and 1000:22 MST, 23 Nov 82. The scheduled launch times were 1005 with a 4.5 second separation.

### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

### a. Surface

- (1) Standard surface observations to include pressure, temperature ( $^{0}$ C), relative humidity, dew point ( $^{0}$ C), density (gm/m $^{3}$ ), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided form existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

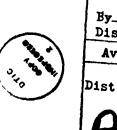
### b. Upper Air

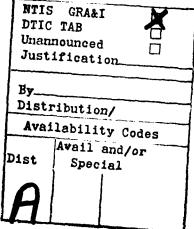
(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE
WSD 2km
DON 2km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

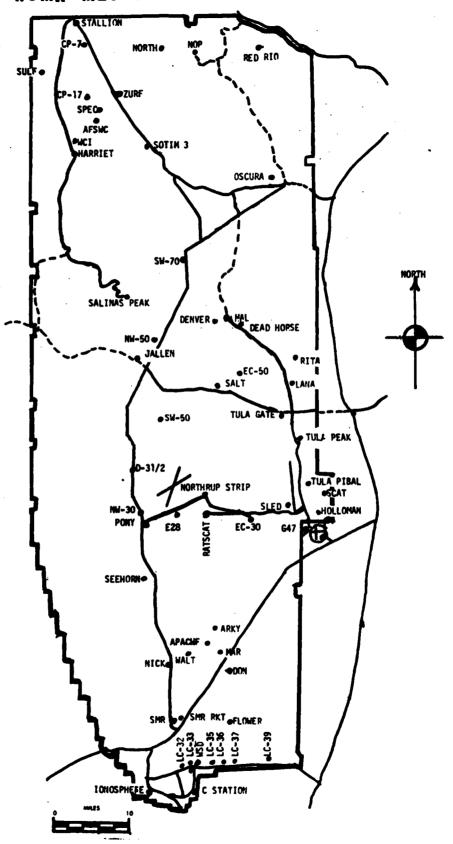
SITE AND TIME LC-37 0800 MST WSD 0830 MST WSD 1000 MST





Accession For

## WSMR METEOROLOGICAL SITES



|  |          |         | 1, 111              | 1777              |                  | 1 |
|--|----------|---------|---------------------|-------------------|------------------|---|
|  |          | • •     |                     | <b>-,</b> '       | 416.00           |   |
|  |          |         | LC-33<br>Launch Arc | . [               | NORTH            |   |
|  |          |         | Launch Arc          | :a                | 1                |   |
|  |          |         |                     | ٨                 | WEST _1_         | _ |
|  |          | •       |                     |                   |                  | • |
| •  | •        |         |                     | \                 |                  |   |
|  |          | •       |                     | <u>;</u><br>;     | 1 3 - 5 - 250 64 |   |
|  |          |         |                     | ,                 | 1 inch = 250 ft  |   |
| •  | Y186,5   | no      |                     |                   |                  |   |
|  |          | 40      |                     | OF 6186           |                  |   |
|  |          |         |                     | ű.                |                  |   |
|  |          |         |                     | a l               |                  |   |
| -  |          |         |                     | 0                 |                  |   |
|  |          |         |                     | 1.06              |                  |   |
|  |          |         |                     | ー                 |                  |   |
|  |          |         |                     |                   |                  |   |
|  |          |         |                     | O Ane             | nipmeter Pole #3 |   |
|  |          |         |                     | f                 | ì                |   |
| . 11.010 400 400 400 400 400 400 400 400 400 | Y186,0   | 00      |                     | , O Ane           | mometer Pole #2  |   |
| MET  | /er O 7- | 9 Radar | L-579               | DA JO DL          | -519A            |   |
| 1 01/  | ier -    |         |                     |                   |                  |   |
| •  |          |         | L-35                | ıa <b>0 ≅ 0</b> L | -350A            |   |
|  |          |         |                     | ole               |                  |   |
|  | •        |         |                     |                   |                  |   |
| •  |          |         |                     | ţe.               |                  |   |
| •  |          |         |                     | Jine              |                  |   |
|  |          |         |                     | Anemome ter       |                  |   |
|  |          |         |                     | An                |                  |   |
|  | Y185,5   | 00      |                     |                   |                  |   |
| -  | į        |         |                     |                   |                  |   |
|  | ]        |         |                     |                   |                  |   |
|  |          |         |                     |                   |                  |   |
|  | !        |         | 1                   |                   | 1                |   |
|  | 000      |         | 603                 |                   | 000              |   |
|  | ທີ       |         | ις.<br>"\$          |                   | φ.               |   |
|  | X485,000 |         | x485 <u>,</u> 510   |                   | X486,000         |   |
|  | )        |         | 1                   |                   | <b>{</b>         |   |
| •  | Vine o   | 00      | 1                   |                   | L-600            |   |
|  | Y185,0   | J()     | 1                   |                   |                  |   |
|  |          |         |                     |                   |                  |   |
|  |          |         | İ                   |                   |                  |   |
|  |          |         |                     |                   |                  |   |
|  |          |         |                     |                   |                  |   |
|  |          |         |                     |                   |                  |   |
|  |          |         | 1                   |                   |                  |   |
|  | 1        |         |                     |                   |                  |   |
|  | 1        |         | <b>\</b>            |                   |                  |   |
|  |          |         | I .                 |                   | P                |   |

TO SECURITION OF THE PROPERTY OF THE PROPERTY OF THE

of off engages of the control engages sections because the control of the control of the control of the control of

PROJECT SURFACE OBSERVATION

|                     | . 3995.00                              |                  | VISIBIL-<br>ITY       | , |         | <del>- ^</del> |  |   |
|---------------------|--|------------------|-----------------------|---|---------|----------------|--|---|
|                     | X= 484,982.64 Y= 185,957.73 H= 3995.00 |                  | CHARACTER<br>kts      |   |         |                |  |   |
| 33 E & A            | , v 18                                 | UNIT             | SPEED<br>kts          |   | 20      |                |  | i |
| STATION LC-33 E & A | 484,982.64                             |                  | DIRECTION degs In     |   | 109     |                |  |   |
| 1                   | <b>~</b> 1                             |                  | DENSIJY<br>gm/mg      |   | 1063    |                |  |   |
|                     |  | , 271 6 4 7 5 70 | HUMIDITY              |   | -0.9 34 |                |  |   |
|                     |  |                  | •                     |   | 6.0-    |                |  |   |
|                     |  |                  | DEW POINT<br>OF OC    |   |         |                |  |   |
|                     | 0.1                                    |                  | RATURE<br>OC          |   | 14.6    |                |  |   |
|                     | Nov 82                                 | AE VIE           | TEIMPERATURE<br>OF OC |   |         |                |  |   |
|                     | i                                      | <u> </u>         | PRESSURE<br>mbs       |   | 879.4   |                |  |   |
| 1                   | DATE 23                                | AVO              | T117E<br>M S T        |   | 1000    |                |  | 1 |

|         | REMARKS   |                   |     |   |            |   |      |   |   |   |
|---------|---|-------------------|-----|---|------------|---|------|---|---|---|
|         | 3rd LAYER   | MT TYPE   HGT     |     |   |            |   |      | _ |   |   |
|         |   | Γ                 |     |   | 22,000     |   | <br> |   | - |   |
| SCIIO I | A LAYE  | ALE I TVDE I LICT |     |   | S          |   |      |   | _ | _ |
|         | ,   | 1                 |     | _ | 7          | - | <br> |   | _ |   |
|         | 6   |                   | 25  |   | AC 112,000 |   |      |   |   | _ |
|         | A V V   |                   | 7 7 |   | AC         |   |      |   |   |   |
|         |   | 2                 | AFI |   | က          |   |      |   |   | _ |
|         | OBSTRUCTIONS 1st LAYER TO VISIBILITY AMT   TYPE   HGT |                   |     |   |            |   |      |   |   |   |

| 5                          |       |                |               |                |           |                 |
|----------------------------|-------|----------------|---------------|----------------|-----------|-----------------|
| PSYCHROPETRIC CO: PUTALIUM | 1000  | 14.6           | 7.0           | 9.7            | 6.0-      | D. 34           |
| PSYCHRO                    | TIVE: | DRY BULB TEMP. | WET BULB TEIT | WET BULB DEPR. | DEW POINT | RELATIVE HUMID. |

| POLE #1<br>X485,87<br>Y185,95<br>H4018.7<br>38.7 ft | 9.90<br>4  |                | POLE #2<br>X485,87<br>Y186.01<br>H4033.5<br>53.0 ft | 4.29<br>2.00<br>7 |                | POLE #3<br>X485,87<br>Y186,11<br>H4063.9<br>83.6 ft | 7.29<br>6.06<br>2 |                |
|---|------------|----------------|---|-------------------|----------------|---|-------------------|----------------|
| T-TIME<br>SEC                                       | DIR<br>DEG | SPEED<br>KNOTS | T-TIME<br>SEC                                       | DIR<br>DEG        | SPEED<br>KNOTS | T-TIME<br>SEC                                       | DIR<br>DEG        | SPEED<br>KNOTS |
| T -30   | 100        | . 02           | T -30   | 088               | 03             | T -30   | 096               | 04             |
| T -20   | 100        | 02             | T -20   | 088               | 02             | T -20   | 097               | 05             |
| T -10   | 100        | 02             | T -10   | 088               | 02             | T -10   | 096               | 05             |
| T 0.0   | 100        | 02             | T 0.0   | 088               | 02             | T 0.0   | 093               | 04             |
| T +10   | 100        | 02             | T +10   |                   | CALM           | T +10   | 081               | 05             |

| TABLE | 3 | LC-33 METEOROLOGICAL | TOWER ANEMOMETER | MEASURED WINDS    | (202 FT TOWER)  |  |
|-------|---|----------------------|------------------|-------------------|-----------------|--|
|       |   |                      |                  | TIETIOONED HITHDO | (LOL II IONLIN) |  |

| LEVEL #1, 12<br>X484,982.64 |         | 3, H3983.00 (base) | LEVEL #2, 62 FEET X484,982.64, Y185.057.73, H3983.00 (base) |         |             |  |  |
|-----------------------------|---------|--------------------|---|---------|-------------|--|--|
| T-TIME SEC                  | DIR DEG | SPEED KNOTS        | T-TIME SEC  | DIR DEG | SPEED KNOTS |  |  |
| T -30                       | 108     | 03                 | T -30   | 097     | 02          |  |  |
| T -20                       | 108     | 02                 | T -20   | 096     | 03          |  |  |
| T-10                        | 114     | 03                 | T -10   | 095     | 03          |  |  |
| T 0.0                       | 109     | 03                 | T 0.0   | 094     | 03          |  |  |
| T +10                       | 102     | 03                 | T +10   | 093     | 03          |  |  |

| LEVEL #3, 10<br>X484,982.54 |         | 3, H3983.00 (base) | LEVEL #4, 202 FEET<br>X484,982.64, Y185,057.73, H3983.00 (base) |         |             |  |  |
|-----------------------------|---------|--------------------|---|---------|-------------|--|--|
| T-TIME SEC                  | DIR DEG | SPEED KNOTS        | T-TIME SEC  | DIR DEG | SPEED KNOTS |  |  |
| T -30                       | 106     | 02                 | T -30   | 092     | 03          |  |  |
| T -20                       | 106     | 02                 | T -20   | 091     | 03          |  |  |
| T -10                       | 105     | 02                 | T -10   | 091     | 03          |  |  |
| Τ 0.0                       | 104     | 02                 | T 0.0   | 092     | 03          |  |  |
| T +10                       | 102     | 02                 | T +10   | 093     | 03          |  |  |

<sup>\*</sup> POLE #1 DIRS ARE ESTIMATED

### T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 23 Nov 82

SITE: WSD

TIME: 1002 MST

WSTM COORDINATES:

X = 488,852.29

Y = 184,982.45

H= 3,993.75

SITE: DON

TIME 1000 MST

WSTM COORDINATES:

X= 511,988.37

Y= 247,396.36

H= **3,996.83** 

| LAYER MIDPOINT | DIRECTION | SPEED | LAYER MIDPOINT | DIRECTION | SPEED |
|----------------|-----------|-------|----------------|-----------|-------|
| METERS AGL     | DEGREES   | KNOTS | METERS AGL     | DEGREES   | KNOTS |
| SURFAÇE        | 090       | 03    | SURFACE        | 280       | 01    |
| 150            | 010       | 10    | 150            | 338       | 05    |
| 210            | 024       | 11    | 210            | 335       | 05    |
| 270            | 042       | 07    | 270            | 322       | 04    |
| 330            | 058       | 06    | 330            | 300       | 03    |
| 390            | 065       | 05    | 390            | 236       | 02    |
| 500            | 064       | 06    | 500            | 172       | 07    |
| 650            | 080       | 03    | 650            | 160       | 09    |
| 800            | 293       | 03    | 800            | 159       | 07    |
| 950            | 272       | 07    | 950            | 184       | 06    |
| 1150           | 263       | 09    | 1150           | 233       | 80    |
| 1350           | 255       | 16    | 1350           | 242       | 12    |
| 1550           | 250       | 19    | 1550           | 243       | 14    |
| 1750           | 247       | 16    | 1750           | 246       | 15    |
| 2000           | 243       | 20    | 2000           | 251       | 15    |

Data obtained from a NIKE-HERCULES
Radar Tracked pilot-balloon observation

Data obtained from a Single Theodolite Tracked pilot-balloon observation

# AIMING AND T-TIME COMPUTER MET MESSAGES 23 Nov 82

| LC-37 0800 MST    | WSD 0830 MST      |
|-------------------|-------------------|
| METCM1324063      | METMC1324064      |
| 231500124876      | 231550122878      |
| 00000000 28070876 | 00631003 28260878 |
| 01640005 28420866 | 01614010 28440868 |
| 02103006 28570840 | 02078008 28560842 |
| 03537002 28430801 | 03142002 28380803 |
| 04459013 28160754 | 04458011 28140756 |
| 05439018 27880710 | 05438019 27860711 |
| 06436022 27490667 | 06437023 27450669 |
| 07447022 27070627 | 07448023 27010628 |
| 08457026 26740588 | 08451026 26680590 |
| 09455026 26330552 | 09452028 26300553 |

| TAILON ALTITUNE 4051.37 FEET MSL | 080r HRS PS1 | ,            |
|----------------------------------|--------------|--------------|
| Upr                              |              | 11           |
| ALTIT                            | ž            | No. 2        |
| TAILON                           | 3 NOV #2     | SCENSION NO. |

| UA I                         |                  |
|------------------------------|------------------|
| SIGNIFICANT LEVEL 3270130114 | LC-37<br>TABLE 6 |

•EODETIC CO0₁.∪INA1ES 32-40175 LAT UEG 106-31232 LON UEG

| PRESGURE GFOMETRIC<br>ALTITUDE<br>11 LIBARG GEL FFET | č         | TEMPERATURE<br>AIR DEWPOINS<br>GREES CENTIGRAGE | HEL.HUM<br>PERCENT |
|--|-----------|---|--------------------|
| <u>-</u> -   | DEGMEES C | ENTIGRADE                                       |                    |
|  |           | -3.8  | 46.0               |
|  | ញ<br>ស្វឹ | 7.67  | 42.0               |
|  |           | •   | •                  |
|  | •         | •   |                    |
|  |           | •   |                    |
|  | 7,6       | •   |                    |
|  | R•#       | •   |                    |
|  |           | •   | •                  |
|  | 'n        | •   | •                  |
|  | •         | •   |                    |
|  | 9         | -   | •                  |
|  | •         | 67  | •                  |
|  | •         | •   | •                  |
|  | 12.4      | 31.   | 19.0               |
|  | •         | 2 1   | •                  |
|  | င်္ဂ      | •   | •                  |
|  | 20        | 9.45-   | 80.0               |
|  |           |   |                    |
|  | -24.0     | •   | -                  |
|  | -28.6     | •   | ÷                  |
|  | •         | •   | -                  |
|  | •         | 742.8   | 0.99               |
|  | -42.8     |   |                    |
|  | •         |   |                    |
|  |           |   |                    |
|  |           | •   |                    |
|  | •         |   |                    |
|  | 9.09-     |   |                    |
|  | ė         |   |                    |
|  | 9.09-     |   |                    |
|  | -64.5     |   |                    |
|  | -62.6     |   |                    |
|  | å         |   |                    |
|  |           |   |                    |
|  | 8         |   |                    |
|  | -67.8     |   |                    |
|  | :         |   |                    |

| 4.151.37 FFET NSL | UBDO HRS NIST |            |
|-------------------|---------------|------------|
| JA                |               | 110 · 114  |
| STATION ALTITUDE  | 23 MOV. 82    | ASCE USICE |

| ATAU                         |       | 7             |
|------------------------------|-------|---------------|
| SIGNIFICANT LEVLL 3270130114 | LC-37 | TABLE A CONT. |

3500E

SEODETIC COUNDINATES 32.40175 LAT DEG 106.31232 1.014 DEG

| PRESSUR | PRESSURE GFOMETRIC | TEMPERATURE        | HEL - HUM |
|---------|--------------------|--------------------|-----------|
| 11LIBAR | ALITIONS MEL FEET  | DEGREES CENTIGRADE | PERCEN    |
| 56.9    | 65373.0            | 0.09-              |           |
| 50.0    | 68038.6            | -60.1              |           |
| 42.7    | 71300.0            | -59.2              |           |
| 39.0    | 78706.2            | -53.8              |           |
| 25.0    | 82583.8            | -53.5              |           |
| 20.0    | 87379.1            | t.01-              |           |
| 19,1    | 88378.0            | <b>5.65-</b>       |           |

| νΕΟDETIC COOMUINATES<br>32•40175 LAT DEG<br>106•31232 LOH DEG | WINL DATA. INDEX<br>LINECTION SPEED OF<br>LEGREES(IN) ANOTS REFRACTION | ATA.<br>SPEED<br>ANOTS            | SPEED<br>NNOTS        | NOTS                  |          | .0 1.40026 | :        | .6 1.00024 | 1.0 1.00024 | 10° 00° | EC000-1 0.0 | 5-1 1-00023 | 1000 t 7:8 |          |        | 10000 1 00001 | 12::00:1 0:91 C | 17.5 1.00021 | 19.0 1.00020 | 19.9 1.00020 | 20.8 1.0002 | 21.2 1.0020 | 21.3    | 21.5 1.0001 | 21.9 1.0001 | 22.3 1. | 3.6         | 25.2    | 57.2 26.6 1.00017 | 27.2 1.00017 | 27.8    | 2000-1 Z8-0 J-00016-5 | 41.0    |          | 200 to 100 to 10 | 38.1 1.00015 | 21000 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | 31000-1 |           | 71000 · 1 | 7100:1 7:00 7:72 | 41.00014     | 56.4      |   |
|---|--|-----------------------------------|-----------------------|-----------------------|----------|------------|----------|------------|-------------|---------|-------------|-------------|------------|----------|--------|---------------|-----------------|--------------|--------------|--------------|-------------|-------------|---------|-------------|-------------|---------|-------------|---------|-------------------|--------------|---------|-----------------------|---------|----------|--|--------------|---|---------|-----------|-----------|------------------|--------------|-----------|---|
| AIR UATA<br>3180114<br>7<br>E 7                               | SPEED OF<br>SOUND<br>KNOTS   | SPEED OF<br>SOUND<br>KNOTS        | STONY                 | STONY<br>KNOTS        |          |            | •6 658•6 |            |             |         |             | ? "         |            | נים<br>מ |        | <b>⊣</b> :    | <b>2</b> 0      | _            | _            | 7            | .5 647·4    | 642.6       | _       |             |             |         | 783.3 639.0 | _       | _                 |              | _       | 9•7 631•B             |         | <b>-</b> | ٠  | ٠.           | 667.7 4.25.4                              |         | <b>.</b>  | _<br>n .  | _                | <b>+</b> 619 | 3.7 517.5 | 5 |
| UPPER AIR UA<br>3270180114<br>LC-37<br>TABLE 7                | UM. DENSITY<br>NT GM/CURIC<br>METER                                    | _                                 |                       |                       | 3        | 7          |          |            | . ~         | 4       |             | •           |            |          |        |               |                 |              | _            |              | 855.        |             |         |             |             |         |             |         |                   |              |         | 726.                  |         |          |  |              |   |         | _         |           |                  |              |           |   |
|   | REL.HUM.<br>PERCENT  | : <u>::::</u> ;                   | د تند .<br>الدا       | ы.,<br>Ш              | ل        | 46.0       | 35.0     | 27.9       | 27.3        | •       | 27.0        | 2.0         | •          | 29.1     | 31.7   | •             | 27.8            | 24.0         | 20.2         | 24.6         | 32.9        | 41.1        | 69.3    | 57.0        | 57.0        | 57.0    | 46.6        | 35.8    | 34.6              | 36.5         | 3       |                       | ונייו   | ָרָ<br>ק | 0 · K  | ָה<br>היי    | 2 1                                       | . ר     |           | <b></b>   | 27               | 68.0         | 79.4      |   |
| .37 FLET NSL<br>On HRS NST                                    | TEMPERATURE<br>R DEWPOINT<br>EES CENTIGRAD                             | PERATURE<br>DEWPOINT<br>CENTIGRAN | DEWPOINT<br>CENTIGRAN | DEWPOINT<br>CENTIGRAN | CEN LENA | -3.8       | 14.6     | ٠.         | 1 9 9       |         | 2.4         | 7.5         | 9.2-       | -7∙8     | 7.7    | 5             | -10.7           | -13.2        | -15.9        | -14.5        | -12.1       |             | 0       |             | 6.0-        | -10.9   | -14-1       | -13.0   | -10.3             | -19.7        | -10.7   | 6.61-                 | -22-3   | 7.6%     | 1-00-  | 1.021        | - S4 - 2                                  | 20.02   | -26.5     | -26.1     | 23               | -25.2        | =         | J |
| J1.37 FLET N<br>JJOA HRS KIST                                 | TEM<br>AIR<br>DFGNEES  | 14.3                              | 73                    |                       |          | 7.0        | 12.0     |            | -           | : .     |             | 10.<br>0    | 9.7        | 8.0      | 8.1    | 1.3           | 9•9             | 5.8          | 5•0          | 3.9          | 2.6         | 1.3         | •       | -1-1        | -2.5        | 13.7    | -4.5        | -5.3    | -6.2              | -7.4         | -8.9    | 10.4                  | -11.5   | → (      | v  | n            | <b>,</b>                                  | 0.0     | : ف       | 18.2      | <u>5</u>         | -20.9        | -22-1     |   |
| <sup>Ս,</sup> յե 40<br>11 <sup>6</sup>                        | PRESSURE<br>MILLIDARS  |                                   |                       |                       |          | 1176.2     | 8.1.0    | Range      | 1 1 1 1     | 1.160   | 10010       | 801.3       | 730.7      | 174.4    | 758.3  | 10000         | 730.7           | 111.3        | 704.1        | 691.0        | 678.1       | 600.5±4     | 65.3.0  | 640.5       | 628.6       | 616.7   |             |         |                   |              |         |                       |         |          |  |              | 2 • a 6 • i                               | V.007   | 1 • / / • | 9.194     | 458.1            | おもひまな        | 7.05.4    |   |
| STATION ALTIT<br>23 JOY+ 82<br>ASCENSION NO+                  | GEONETRIC<br>ALTITUDE<br>MSL FIET                                      | SEUNETRIC<br>ALTITUDE<br>NSL FFET | ALTITUDE<br>NSL FEET  | ALTITUDE<br>NSL FIET  | MOL PIE  | 4051.4     | 4500     | 0.000      | 11.01C      | 3.1.000 | 0.0000      | 0.0050      | 7000.9     | 7590.0   | 8000.9 | ນະທູນ.        | 9000            | 45nn.n       | 10000        | 10500.0      | 11000.0     | 11507.7     | 1,000,1 | 17500.0     | 13000-0     | 13500.0 | 14000.0     | 14500.0 | 15000.0           | 15500.0      | 10000.0 | 16500.0               | 17009.0 | 1/200-0  | 18000.0  | 10200        | 19000.0                                   | 19500.0 | 2000A.    | 20500.0   | 21000°           | 21500.0      | 27000.0   |   |

| ETIC COUNDINATES<br>32-40175 LAT DEG | 06.31232 LON LEG | INUEX<br>OF<br>REFRACTION                    | 1.000131 | 1.000128 | 1.000126 | 00012   | 1.000121 | 11000   | 1.000110 | 00011  | 0001    | 1.000108 | 1.000106   | 1.000104 |         |                  |           | 1 • 000096            | 60000   | 1.000093                                | 1600001        | 060000-1 | 1.000066 | 1.000085 | 1.000083 | 1.000082  | 1.000079 | 1.000078    | 1.000076 | 1.000074 | •00001  | 1.000071<br>1.000069                   | 1.000068 | 1.00006 | 1.00005 | 1.000063 | 1.000062           |
|--------------------------------------|------------------|--|----------|----------|----------|---------|----------|---------|----------|--------|---------|----------|------------|----------|---------|------------------|-----------|-----------------------|---------|---|----------------|----------|----------|----------|----------|---|----------|-------------|----------|----------|---------|--|----------|---------|---------|----------|--------------------|
| 6EUDET16<br>32.40                    | 106              | DAIA<br>I SPEEU<br>I) KNOTS                  | 68.6     | 71.4     | 73.2     | 75.0    | 76.0     | 75.8    | 76.2     | 76.9   | 77.6    | 78.2     | 78.8       | 78.5     | 77.8    | 77.3             | 78.3      | 79.4                  | 81.1    | 84.0                                    | 8.93<br>0.03   | 000      | 95.1     | 7.40     | 5.46     | 94.   | 94.8     | <b>h:96</b> | 97.1     | 96.8     | 95.7    | 91.6                                   | 81.6     | 75.4    | 71.9    | # 6Q     | 68.7<br>69.2       |
|                                      |                  | WIND DA<br>LIRECTION<br>LEGREES(IN)          | 243.0    | 8.447    | 246.0    | 247.3   | 748.0    | 246.1   | 74.24    | 246.5  | 245.6   | 6.442    | 7.55       | 7.442    | C+++7   | 2.44.2<br>2.44.2 | 3.047     | 247.1                 | 2.64.3  | 0 • C • C • C • C • C • C • C • C • C • | 7.007          | 251.00   | 251.2    | 251.5    | 251.2    | 251.0   | 251.7    | 252.0       | 252.7    | 253.9    | 2020    | 257.3<br>259.5                         | 261.0    | 262.5   | 261.0   | * · DO.  | 4,252              |
| 14<br>14                             | Cont'd           | SPEEU OF<br>SOUND<br>KNO1S                   | 015.6    | 614.6    | 013.2    | 6119    | c10.5    | 1.609   | 50704    | 0.000  | 4.700   | 601-1    | 5669       | 598.7    | 597.5   | 596.3            | 294.0     | 593.0                 | 591.4   | 290.0                                   | 5-884<br>5-884 | 00.700   |          | 587.     | 580•6    | 576.5   |          |             | 573.6    | 57.3.0   | 572.5   | 572.4                                  | 573.0    | 574.4   | 271.6   | 570.9    | 570•1<br>569•3     |
| A16                                  | TABLE 7 Co       | DENSITY<br>GM/CUBIC<br>METER                 | 564.7    | 554.9    | 545.7    | 536.0   | 527.9    | 519.3   | 2011C    | 495.3  | 487.3   | 478.7    | 470.3      | 461.9    | 453.8   | 3°53°            | 5.00 to 1 | 431.0                 | 423.7   | 410.4                                   | 407.0          | 70F      | 384.1    | 381.2    | 374.5    | 367.9   | 355.0    | 346.6       | 341.0    | 333.6    | 326.3   | 316.7                                  | 305.1    | 296.5   | 290.5   | 2.4.0    | 272.1              |
| <u>ر</u>                             |                  | KEL.HUM.<br>PERCENT                          | 7.18     | 86.4     | 85.0     | 83.6    | 82.2     | 90.0    | 75.5     | 72.9   | 9.02    | 80.8     | <b>6</b> 0 | 67.9     | 6.99    | 'n.              |           | Ÿ                     | 2.2**   |   |                |          |          |          |          |   |          |             |          |          |         |  |          |         |         |          |                    |
| TF T MSL HRS AST                     |                  | TEMPI MATURE<br>R DEWPOINT<br>EES CENTIGRADE | -25.1    | -26.1    | -27.3    | -2R.5   | -29.B    | -31.0   | 4.45     | 136.0  | -37.6   | -38.6    | -30.7      | -40.7    | -41.8   | 0 • % † -        | 9-44-     | š                     | -72.6   |   |                |          |          |          |          |   |          |             |          |          |         |  |          |         |         |          |                    |
|                                      |                  | TEMP<br>AIR<br>DEGREES                       | -23.6    | -,4.5    | -,5.5    | ø       | 7-76-    | -28.8   | 30.5     | -12.9  | 1.44    | -129-1   | -36-1      | -37.0    | -18.0   | -38.9            | -10.5     | -t <sub>1</sub> 1 • t | -42.7   | 9.5%                                    | 0.01           | 1 - O b  | 9.821    | 8.64-    | -51-1    | 152<br>5.25<br>5.45   | 154 · B  | -6.6.0      | #•95-    | -c6.8    | 1,7.2   | -57.1                                  | -56.8    | -57.3   | PF7.9   |          | 1.59.60<br>1.59.60 |
| 111 <sup>10</sup> 0L 405             | no. 134          | PRESSURE<br>MILLIDARS                        | 404.7    | 390.4    | 36.8.2   | 38.0•1  | 372.2    | 364.4   | 2000     | 341.7  | 334.5   | 321.2    | 320-1      | 313.2    | 300.1   | 300°             | 290.1     | 280.7                 | 280•4   | 274.1                                   | 26/0           | 255.0    | 250.2    | 20.40%   | 236.7    | 23.<br>23.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20 | 222.5    | 217.3       | 212.5    | 201.2    | 202.5   | 197.5<br>192.8                         | 160.2    | 163.7   | 179.4   | 10.7     | 170.9              |
| STATION ALTITUNE 4051.               | ASCENSION NO.    | GEOMETRIC<br>ALTITUDE<br>MSL FFET            | 24000.5  |          | 25000.0  | 6-50055 | 20000    | 26500.6 | 2.000.0  | 28000- | 2850n.0 | 29nne•n  | 29500.0    | 30000    | 20200.0 | 31000.0          | 31500.0   | 32009.9               | 34500.0 | 3.0005                                  | 3.500.0        | 0.000    | 35000.0  | 35500.0  | 30000c   | 35500.0   | 3750n.r  | 36000.0     | 36500.0  | 39000.   | 34200.0 | ************************************** | 41000.0  | 41500.0 | 4200.0  | J. 10074 | 43500.0            |

AT LEAST ONE : SSUMED RELATIVE HUMIDITY VALUE WAS USEN IN THE INTERPOLATION.

| UPPER AIR DAIA | 3270160114                          |                           | IABLE / Cont.d    |
|----------------|-------------------------------------|---------------------------|-------------------|
|                | STAILON ALTITUDE 4051-27 F. ET N.SL | 25 40V 62 62 640 144 1.51 | ASCEISION NO. 113 |

GEODETIC COUNDINATES 32.40175 LAT DEG 106.31232 LON DEG

| INUEX<br>OF<br>REFRACTION                    | 1.000059 | 1.000058 | 1.000056 | 1.00055 | 1.000054 | 1.000053 | 1.000052 | 1.000051 | 1.000050 | 1.000049 | 1.000047 | 1.000046 | 1.000045 | 1.000044 | 1.000043 | 1.000041 | 1.00040 | 1.000039 | 1.000039 | 1.000038 | 1.000037 | 1.000036 | 1.000035 | 1.000034 | 1.000033 | 1.000033 | 1.000032 | 1.000031 | 1.000031 |              |       | 1.000029 | 1.000028       | 1.000027 | 1.000026 | 1.000025       | 1.000025 | 1.000024    | 1.000023 | 1.000023 |
|--|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|-------|----------|----------------|----------|----------|----------------|----------|-------------|----------|----------|
| .TA<br>SPEEU<br>KNOTS                        | 69.8     | 70.3     | 7.07     | 70.9    | 70.9     | 69.8     | 68.7     | 66.5     | 64.5     | 62.3     | 60.3     | 57.0     | 53.5     | 49.5     | 44.9     | #0·B     | ~       | 34.7     | _        | _        | ~        | 15.0     | 6.6      | 6.3      | 9.0      | 3.8      |          | 6.3      | 10.0     | 12.9         | 14.2  | 15.6     | 74.0           | 12.5     | 11.0     | 9.6            | 7.6      | <b>9</b> .0 | •        | 11.0     |
| wIND DATA<br>UIRECTION S                     | 251.0    | 750.B    | 251.1    | 252.3   | 253.6    | 255.5    | 257.6    | 500·6    | 2b3.9    | 506.5    | 264.3    | 5.0.2    | 272.4    | 273.3    | 273.6    | 273.5    | 271.9   | 270-1    | 270.3    | 270.7    | 5.472    | 282.8    | 297.2    | 321.5    | 357.1    | 24.0     | 300.6    | 272.5    | 263.1    | 261.1        | 263.2 | 202      | 2.027          | 2.8.2    | 7.887.   | 304.2          | 322.0    | 3,50.0      | す・カナつ    | 357.5    |
| SPEED OF<br>SOUND<br>KNOTS                   | 568.6    | 1,445    | 566.7    | 568.2   | 567.3    | 560.3    | 565-2    | 564.2    | 563.2    | 563.1    | 563.7    | 564.3    | 564.9    | 565.3    | 565.4    | 565.4    | 565.5   | 565.6    | 565.2    | 964·H    | 564.5    | 564.4    | 564.3    | 20405    | 564.1    | 563.6    | 562.7    | 261.7    | 560.7    | 554.7        | 558.7 | 559.5    | 561.7          | -        | 566.0    | 566.7          | 567.0    | 567.2       | 567.5    | 9-295    |
| DENSITY S<br>GM/CUBIC<br>METER               | 266.3    | 260.4    | 253.6    | 247.9   | 242.7    | 237.7    | 2.72 • 8 | 227.9    | 223.2    | 217.8    | 212.1    | 200.5    | 201.0    | 195.6    | 191.0    | 186.3    | 181.6   | 177.3    | 173.2    | 169.3    | 165.4    | 161.4    | 157.5    | 153.7    | 150.0    | 140.0    | 143.5    | 140.4    | 137.5    | 1.34.6       | 131.7 | 128.1    | 124.0          | 120.0    | 116.2    | 113.1          | 110.3    | 107.5       | 104.4    | 102.2    |
| KEL.HUM.<br>PERCENT                          |          |          |          |         |          |          |          |          |          |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |          |          |          |          |          |              |       |          |                |          |          |                |          |             |          |          |
| TEI4PERATUPE<br>R DEWPOINT<br>EES CENTIGRADE |          |          |          |         |          |          |          |          |          |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |          |          |          |          |          |              |       |          |                |          |          |                |          |             |          |          |
| TEIA<br>AIR<br>DEGREES                       | 1-0-1    | 8        | 100      | 4.0.7   | -6.1.1   | -61.9    | -62.6    | -63.4    | 1.4.2    | -64.2    | -63.B    | 4.54-    | -62.9    | -62.6    | -62.5    | -62.5    | -62.4   | -62.4    | -62.7    | -63.0    | -63.2    | -63.3    | -53.3    | 163.4    | -63.5    | -63.B    | -64.6    | -65.3    | -66.0    | <b>-66.7</b> | -67.5 | -66.9    | -r.5.3         | -63.7    | -F2.1    | -61.5          | -61.3    | -41.1       | -60.0    | -60.7    |
| PRESSURE<br>MILLIUAPS                        | 16.2.8   | 1640     | 155.1    | 151.4   | 147.7    | 144.2    | 140.7    | 137.2    | 133.9    | 130.6    | 127.5    | 124.3    | 121.3    | 110.4    | 115.5    | 112.7    | 110.0   | 10/.3    | 104.7    | 102.1    | 97.6     | 97.2     | 6.46     | 92.5     | 90.3     | 34.1     | B.08     |          |          |              | 77.8  | 75.9     | 74.3           | 74.2     | 70.4     | 68.7           | 1./9     | p.09        | 6.50     | 62.3     |
| GEOMETHIC<br>ALTITUDE<br>MSC FEEI            | 44000    | 400-100  | # CCCC   | 45500.0 | 46000    | 46500.0  | 47000.0  | 47500.0  | 48000    | 40509.0  | 44100.0  | 49500.0  | 500000   | 50500.0  | 51000.0  | 51509.9  | 52000.0 | 52500.0  | 53000.0  | 53500.0  | 54000.0  | 54500.0  | 55000.0  | 55509.9  | 50000.9  | 56500.0  | 57000.0  | 57500.0  | 58000.n  | 54519.0      | 59000 | 59500.0  | <b>60000.0</b> | 60507.0  | 01000.0  | <b>61500.0</b> | 02010.0  | 62500.0     | 6.00000  | 63500.0  |

| STAFION ALTITES NOV. B2<br>ASCENSION NO. | <sup>И</sup> ОЕ 49<br>114 | 51.37 Fg.1 M<br>0801 HRS MST            | MSL<br>IST                                  |                     | UPPER AIR DA 3270180114<br>LC-37<br>TABLE 7 CON | AIR DLTA<br>180114<br>7 Cont'd |                         | •EODE 11<br>32•<br>106• | GEODETIC COORDINATES<br>32.40175 LAT DEG<br>106.31232 LON DEG |
|--|---------------------------|---|---|---------------------|---|--------------------------------|-------------------------|-------------------------|---|
| SEUNETRIC<br>ALTITUDE<br>MSL FEET        | PRESSURE<br>MILLIDARS     | TEMPE<br>AIR<br>DEGREES Q               | TEMPERATUME<br>R DEWPOINT<br>EES CENTIGRADE | REL.HUM.<br>PERCENT | DENSITY<br>GM/CURIC<br>METER                    | SPEEU OF<br>SOUND<br>NNO IS    | WIND DATA<br>IRECTION S | TA.<br>SPEED<br>KNOTS   | INUEX<br>OF<br>REFRACTION                                     |
| 04000                                    | ÷0.8                      | -40.5                                   | •   |                     | 99.7  | 564•0                          | 5.6                     | 10.9                    | 1.000022  |
| 04500.0                                  |                           | -6.0.3                                  |   |                     | 97.2  | _                              | 13.4                    | 11.0                    | 1.000022  |
| 05000.n                                  | 57.9                      | -60.1                                   |   |                     | 94.8  | _                              | 17.4                    | 10.3                    | 1.0000.1  |
| 65500.0                                  | Se. b                     | -60.0                                   |   |                     | 92.4  |                                | 21.5                    | 7.6                     | 1.000021  |
| 00000°                                   | 52.5                      | -60.0                                   |   |                     | 7.06  | •                              | 23.4                    | 9.5                     | 1.000020  |
| <b>66503∙</b> ¶                          | 53.9                      | 0.0°                                    |   |                     | 83.1  |                                | 23.0                    | 9.5                     | 1.000020  |
| 0,000                                    | 55.6                      | -60.1                                   |   |                     | 96.0  |                                | 55.6                    | 9.5                     | 1.000019  |
| u7500.0                                  | 51.3                      | -60.1                                   |   |                     | 83.9  |                                | 25•3                    | 9.6                     | 1.000019  |
| 0.00020                                  | 50.1                      | -60.1                                   |   |                     | 81.9  |                                | 28.3                    | 9.8                     | 1.000018  |
| <b>66599.</b> 6                          |                           | 1.000                                   |   |                     | 79.9  |                                | 31.8                    | 10.0                    | 1.000018  |
| 69436.5                                  |                           | -59.8                                   |   |                     | 77.9  | •                              | 27.5                    | 10.2                    | 1.00001   |
| 695Ag.P                                  |                           | -29.7                                   |   |                     | 76.0  |                                | 42.3                    | 10.4                    | 1.00017   |
| 70000                                    | Ω<br>⊅                    | -59.6                                   | •   |                     | 74.2  | -                              | € 44 ° 50               | 10.2                    | 1.000017  |
| 70500.0                                  |                           | 4.0°                                    |   |                     | 72.3  |                                | න :<br>ර                | 4.4                     | 1.000016  |
| 71009.0                                  | つま                        | -49•3                                   |   |                     | 70.6  |                                | 40.3                    | 9.5                     | 1.000016  |
| 71500.0                                  | Ŋ ·                       | -49.1                                   |   | •                   | ₽•89<br>9                                       |                                | 42.8                    | 9.<br>9.                | 1.000015  |
| 72000.0                                  |                           | -58.7                                   |   |                     | 67.1  |                                | 3.80                    | 6.8<br>6.8              | 1.000015  |
| 0.0007/                                  |                           | 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |   |                     | 65°   | -                              | 1•cc                    | ٠<br>•<br>•             | 1.00015   |
| (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)  |                           | 0.051                                   |   |                     | 0.50  | -                              | 0.7                     | 7.0                     | 1.000014  |
| 13500.0                                  |                           | 9.25-                                   |   |                     | 62.1  |                                | 3 : O                   | 0.9                     | 1.00001   |
| 74519.6                                  | 3/•3                      |   |   |                     | 90.0  |                                | 0.04<br>0.04            | •                       | 1.000013  |
| 7.5000.0                                 |                           | 1000                                    |   |                     | 0.4.C   |                                |                         | . 0                     | C10000-1  |
| 75500.1                                  |                           | -5.6.1                                  |   |                     | 56.1  | 57.5                           | 01.0                    | 0                       | 1.00013   |
| 70000.0                                  |                           | -55.0                                   |   |                     | 54.7  |                                | 59.0                    | 10.6                    | 1.00012   |
| 70500.0                                  |                           | -55.4                                   |   |                     | 53.3  |                                | 50.8                    | 11.2                    | 1.00012   |
| 77000-0                                  |                           | -55.4                                   |   |                     | 52.0  |                                | 26.7                    | 11.7                    | 1.000012  |
| 77509.0                                  |                           | -54.7                                   |   |                     | 50.7  |                                | 57.1                    | 12.2                    | 1.000011  |
| 73000.0                                  |                           | カ・オルー                                   |   |                     | #•6ta   | 576.5                          | 57.5                    | 12.6                    | 1.000011  |
| 78500.0                                  |                           | -54.0                                   |   |                     | 48.1  | 570.8                          | 55.4                    | 11.3                    | 1.000011  |
| 79000.0                                  |                           | 8°6'                                    |   |                     | 0.64  |                                | 9.2¢                    | 10.0                    | 1.000010  |
| 1950A.C                                  |                           | -53.7                                   |   |                     | 45.0  |                                | 20.                     | 8.7                     | 1.000010  |
| 40000                                    |                           | -53.7                                   |   |                     | 8.5   | _                              | 55.5                    | 7.1                     | 1.000010  |
| 80500. P                                 | 2/.                       | -53.7                                   |   |                     | 2°0 ±   |                                | 62.6                    | 5.6                     | 1.000010  |
| 91000.0                                  | 2 <b>0</b> -              | -53.6                                   |   |                     | 42.7  |                                | 75.5                    | 4.5                     | 1.00010   |
| 81500.0                                  |                           | -53.6                                   |   |                     | 41.7  |                                | 9.0                     | 3.8                     | 1.000009  |
| 82000.0                                  | 2007                      |   |   |                     | 3 · C   | 57.                            | 7.56                    | เกา<br>เกา              | 1.000009  |
|  | 0.20                      | ן ביין<br>ביין                          |   |                     | 20°24   |                                | 7.00T                   | 7                       | 600000-1  |
|  | 1                         | 1                                       |   |                     | 200   | 9.//5                          | 72.4                    | N 4                     | 600000-1  |
| 1.0000                                   |                           | , v.                                    |   |                     | F•10  |                                | 0.1                     | † · · ·                 | 1.000008  |

|   |  |            |          |            |          |         |          |       | •        |          |          |
|---|--|------------|----------|------------|----------|---------|----------|-------|----------|----------|----------|
| WEUDLTIL COOMUINATES<br>32-4U175 LAT DEG<br>106-51232 LON DEG             | INDEX<br>OF<br>REFRACTION                                    | 1.000008   | 1.000008 | 1.00008    | 1.900008 | 1.00007 | 1.000007 |       | 1.000001 | 1.000001 | 1.000007 |
| vEUDLT1(<br>32**<br>106**   | SPEEU<br>KNOTS   | 0.3        | 4.6      | 7.7        | 50.0     |         |          |       |          |          |          |
|   | #IND DATA IRECTION SI  | 54.5       | 45.9     | 70.00      | 37.6     |         |          |       |          |          |          |
| JATA<br>14<br>int'd   |  | 579.0      |          |            | 780      |         | 581.     |       |          |          | 582.7    |
| UFPER AIN DATA<br>3270160114<br>LC-37<br>TABLE 7 Cont'd                   | REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND METER NHOTS | 36.9       | 36.00    | u p        |          | 3455    | 30.5     |       | 31.7     | 31.0     | 30.3     |
|   | REL.HUM.<br>PERCENT  |            |          |            |          |         |          |       |          |          |          |
| FE, T MSL<br>IRS 115T   | PERATUPE<br>DEWPOINT<br>CENTIGRADE                           |            |          | <b>7</b> : | ÷ •      | •       |          | 2.    | .7       |          | st.      |
| 51.37<br>080r p   | TEM<br>AIK<br>DEGREES  | -F. 2 s. 3 |          |            | 101      |         |          |       | L-69-1   |          |          |
| ATION ALTITUDE 4051.37 FF, T MSL. 140V. N.2 UBON HRS 145T CENSION NO. 114 | ULLTRIC PRESSURE<br>TITULE<br>L FEET MILLIAARS               | <b>#</b>   |          |            |          |         |          |       |          |          | 3.7      |
| ATION AL<br>NOV. 62<br>CENSION  | UNETRIC<br>TITULE<br>IL FEET                                 | 6          | 3.000 c  | 84500      | 85000.0  | 0.000 H | 000000   | 00000 | 87000.A  | H7500.0  | Samon S  |

| MANDATORY LEVELS<br>32701 GOLI4   | LC-37                    | TABLE 8           |
|-----------------------------------|--------------------------|-------------------|
| STATION ALTITUDE 4051.77 FEET MSL | 23 NOV. 82 0800 11R5 HST | ASCENSION NO. 114 |

| -                   | •  |   |   |   |  |   |   |  |  |  |   |   |   |  |   |   |  |  |   |   |   |  |   |  |  |  |   |
|---------------------|--|---|---|---|--|---|---|--|--|--|---|---|---|--|---|---|--|--|---|---|---|--|---|--|--|--|---|
| ATA                 | KNOTS  | 9.  | 2.2   | 12.8  | 19.3   | 21.4  | 24.2  | 26.4   | 37.1   | 54.9   | 70.2  | 76.1  | 77.2  | 95.2   | 0.46  | <b>4.69</b>   | 71.0   | 57.9   | 22.8  | 12.6  | 10.7  | 10.9   | 9.8   | 5.9  | 10.9   | 4.0  |   |
| U UNIN U            | DEGICES (TN)                                   | 330.4   | 297.6   |   |  |   |   |  |  |  |   | ,   |   |  |   |   |  |  |   |   |   |  | 26.3  | 36.9   | 9.49   | 109.3  |   |
| hel. Hum.           |  | 28•   | 24.   | 35.   | 19.  | 51.   | 4.  | 45.  | • † †  | 67.  | 87.   | 76•   | •99   |  |   |   | ,  |  | •   |   |   |  |   |  |  |  |   |
| ERATURE<br>DEMOCIAT | CENT I GRADE                                   | 0.9-  | -7.2  | -7.6  | -16.8  | 1-6-  | -15.7   | -19.9  | -23.7  | -25.3  | -25.5   | -34.2   | -42.8   | -  |   |   |  |  |   |   |   |  |   |  |  |  |   |
|                     | DEGREES  | 11.9  | 10.5  | 7.6   | 8 • t <sub>1</sub>   | r   | 8.4-  | -10.2  | -14.2  | -2n.7  | -24.0   | -31.4   | -38.9   | -48.6  | -57.4   | -58.4   | 9-09-  | -63.5  | -63.2   | 9.99-   | -61.7   | <b>-60.4</b>   | -60.1   | -58.2  | -53.8  | -53.5  | 17.64-  |
| OPOTENTIAL          | FEET   | 4878.   | 6539.   | 8273.   | 10147.   | 12111.  | 14194.  | 16420.   | 18012.   | 21405.   | 24244.  | 27398.  | 30921.  | 34939.   | 39640.  | 42408.  | 455A8.   | 49250.   | 53763.  | 58244.  | 60609   | 64051.   | 67784.  | 72368.   | 78371.   | 82217.   | 86971.  |
| PRESCURE GE         | MILLIPARS                                      | P50.1   | F00.1   | 750.1   | 700.0  | A50.0   | 6.00 A  | 1.50.1   | F.00.1   | 450.4  | 400ty   | 350.0   | 300.0   | 250.0  | 2000  | 175.0   | 159.9  | 125.0  | 100.  | 80.0  | 70.0  | 0.09   | 50.0  | £0.3   | 30.0   | 25.0   | 20.n  |
|                     | IMPERATURE NEL. HUM. AIND DATE DEMOCAL DESCRIP | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIND DAT<br>AIR DEWPOINT PERCENT DIRECTION<br>FEET DEGREES CENTIGRADE DEGREES(IN) | GEUPOIFNIIAL TEMPERATURE NEL.HUM. AIMU DAT<br>AIR DEWPOINT PERCENT DIRECTION<br>FEET DEGREES CENTIGRADE DEGREES(IN) | GEUPOIFNIIAL TEMPERATURE hel.Hum. AIMU DATARE DEWPOINT PERCENT DIRECTION FEET DEGREES CENTIGRADE DEGREES(IN)  1 4878. 11.9 -6.0 28. 335.2 | GEUPOTFNTIAL TEMPERATURE hel.HUM. AINU DATA  AIR DEWPOINT PERCENT DIRECTION  FEET DEGREES CENTIGRADE 166KES(IN)  A 4878. 11.9 -6.0 24. 336.2  A 6539. 10.5 -7.2 24. 297.4  A 8293. 7.6 -7.6 33. 255.0 12 | GEUPOTFNTIAL TEMPERATURE hel.HUM. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES(TN)  1 4878. 11.9 -6.0 20. 330.2  1 6539. 10.5 -7.2 28. 297.8 2  1 8293. 7.6 -7.6 33. 255.0 12  1 10147. 4.8 -16.8 19. 240.7 19 | GEUPOTFNTIAL TEMPERATURE hel.Hum. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES(TN)  1 4878. 11.9 -6.0 20. 330.2  1 6539. 10.5 -7.2 20. 297.0 2  1 8203. 7.6 -7.6 33. 255.0 12  1 10147. 4.8 -16.8 19. 240.7 19 | GEUPOTFNTIAL TEMPERATURE hel.Hum. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES(TN)  1 4878. 11.9 -6.0 28. 336.2  1 6539. 10.5 -7.2 28. 297.8 2  1 8273. 7.6 -7.5 33. 255.0 12  1 10147. 4.8 -16.8 19. 247.2 21  1 121113 -9.1 51. 247.2 21  1 141944.8 -15.7 42. 255.3 24 | GEUPOTFNTIAL TEMPERATURE hel.Hum. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES(TN)  1 4678. 11.9 -6.0 28. 336.2  1 6539. 10.5 -7.2 28. 297.8 2  1 6539. 10.5 -7.2 28. 297.8 2  1 10147. 4.8 -16.8 19. 245.7 19  1 121113 -9.1 51. 247.2 21  1 141944.8 -15.7 42. 255.3 24  1 1642010.2 -19.9 45. 255.7 28 | GEUPOTFNTIAL TEMPERATURE hel.Hum. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES(TN)  1 4678. 11.9 -6.0 28. 338.4 2  1 6539. 10.5 -7.2 28. 297.4 2  1 6539. 10.5 -7.2 28. 297.4 2  1 10147. 4.8 -16.8 19. 245.7 19  1 141944.8 -15.7 44. 255.7 28  1 1642010.2 -19.9 44. 255.7 28  1 1831214.2 -23.7 44. 245.2 37 | GEUPOTFNTIAL         TEMPERATURE         REL.HUM.         AIND DATE           AIR         DEWPOINT         PERCENT         DIRECTION           ABORNES         CENTIGRADE         DIRECTION           ABORNES         11.9         -6.0         28.         33b.c           ABORNES         10.5         -7.2         28.         297.e         2           ABORNES         7.6         -7.2         28.         297.e         2           ABORNES         7.6         -7.2         28.         255.e         15           ABORNES         4.8         -16.8         19.         246.7         21           ABORNES         -10.2         -15.7         42.         255.5         2           ABORNES         -10.2         -9.1         51.         245.5         2           ABORNES         -10.2         -9.1         54.         255.7         2         2           ABORNES         -10.2         -25.7         44.         245.2         3         7           ABORNES         -25.3         67.         241.8         5         2 | GEUPOTFNTIAL         TEMPERATURE         NEL.HUM.         AIND DATE           AIR         DEWPOINT         PERCENT         DIRECTION           AIR         DEWPOINT         PERCENT         DIRECTION           ABOTS.         11.9         -6.0         28.         336.4         2           ABOTS.         10.5         -7.2         28.         297.6         2           ABOTS.         7.6         -7.2         28.         297.6         2           ABOTS.         10.5         -7.2         28.         255.0         15           ABOTS.         4.8         -16.8         19.         240.7         24           ABOTS.         -16.8         19.         245.2         22           ABOTS.         -10.2         -15.7         44.         245.2         37           ABOTS.         -24.0         -25.3         67.         244.9         70           ABOTS.         244.9         -25.5         87.         244.9         70 | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DESCRIPTION DEWPOINT PERCENT DIRECTION DIRECTION DIRECTION DIRECTION DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES (TN) DIRECTION | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU DATA AIR DEWPOINT PERCENT DIRECTION DIRECTION DESCRIPTION DEWPOINT PERCENT DIRECTION DIRECTION DEGREES CENTIGRADE DEGREES(TN) | GEUPOTFNTIAL         TEMPERATURE         NEL.HUM.         AIMU DAT           AIR         DEWPOINT         PERCENT         DIRECTION           AIR         DEWPOINT         PERCENT         DIRECTION           AB78.         11.9         -6.0         28.         330.2           AB78.         11.9         -6.0         28.         297.8         2           AB78.         10.5         -7.2         28.         297.8         2           AB73.         7.6         -7.6         33.         240.7         2           AB73.         4.8         -16.8         19.         240.7         2           AB70.         -10.7         -19.9         44.         255.3         2           AB312.         -10.2         -19.9         44.         255.3         2           AB312.         -24.0         -25.3         67.         241.8         5           AB312.         -24.0         -25.3         67.         244.3         7           AB3921.         -38.9         -42.8         66.         244.4         7           AB393.         -42.8         66.         244.4         7 | GEUPOTFNTIAL TEMPERATURE hel.Hum. AIMU DAT PEET DEWPOINT PERCENT DIRECTION HATCH DEWPOINT PERCENT DIRECTION HATCH DEWPOINT PERCENT DIRECTION HATCH DEWPOINT PERCENT DIRECTION 10.00 | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU DAT PEET DEWPOINT PERCENT DIRECTION AGREES CENTIGRAUE NECENT DIRECTION AGREES (TN) AGRE | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU DAT PERCENT DIRECTION AIMU DAT PERCENT DIRECTION DIRECTION DEWPOINT PERCENT DIRECTION AIMU DAT PERCENT DIRECTION DIRECTION AIMO DEWPOINT PERCENT DIRECTION AIMO DEWPOINT PERCENT AIMO DEWPOINT DEMPPOINT DEMPPOI | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU DAT PERCENT DIRECTION AIMU DAT PERCENT DIRECTION DIRECTION DEWPOINT PERCENT DIRECTION AIMU DAT PERCENT DIRECTION DIRECTION AIMU DATA DEWPOINT PERCENT DIRECTION AIMO DATA DEWPOINT PERCENT DIRECTION AIMO DATA DATA DATA DATA DATA DATA DATA DAT | GEUPOTFNTIAL         TEMPERATURE         NEL.HUM.         AIMU DAT           AIR         DEWPOINT         PERCENT         DIRECTION           AIR         DEWPOINT         PERCENT         DIRECTION           AB78.         11.9         -6.0         28.         336.2           AB78.         11.9         -6.0         28.         297.6         2           AB78.         10.5         -7.2         28.         297.6         2           AB78.         10.5         -7.2         28.         297.6         2           AB79.         4.8         -16.8         19.         245.7         24           AB79.         -4.8         -15.7         42.         24         24           AB70.         -10.2         -19.9         45.         255.3         24           AB12.         -10.2         -23.7         44.         245.6         37           AB12.         -24.0         -25.5         87         244.9         77           AB93.         -24.0         -25.5         87         244.9         77           AB93.         -24.0         -25.5         87         250.1         94           AB93.         -4 | GEUPOTFNTIAL         TEMPERATURE         NEL.HUM.         AIMU DAT           AIR         DEWPOINT         PERCENT         DIRECTION           AIR         DEWPOINT         PERCENT         DIRECTION           AB78.         11.9         -6.0         28.         330.2           AB78.         11.9         -6.0         28.         297.6         2           AB78.         10.5         -7.2         28.         297.6         2           AB78.         10.5         -7.2         28.         297.6         2           AB79.         -7.6         -7.2         24.         2         2           AB111.         -9.1         51.         247.2         21         2           AB12.         -10.2         -9.1         51.         247.2         2           AB12.         -10.2         -15.7         44.         245.5         3           AB12.         -10.2         -25.3         67.         244.9         7           AB244.         -24.0         -25.3         67.         244.9         7           AB244.         -24.0         -25.3         67.         244.9         7           AB240.         -57.4 </td <td>GEUPOTFNTIAL         TEMPERATURE         NEL.HUM.         AIMU DAT           FEET         DEMPOINT         PERCENT         DIRECTION           1         DEMPOINT         PERCENT         DIRECTION           1         DEMPOINT         PERCENT         DIRECTION           1         DEMPOINT         PERCENT         DIRECTION           1         B278.         11.9         -6.0         28.         297.6         2           1         B273.         10.5         -7.2         28.         297.6         2           1         B273.         19.         247.2         24         2         2           1         B114.         -4.8         -15.7         42.         24         2         2         2           1         B112.         -4.8         -15.7         42.         255.3         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         3         2         3         2         3         3         3         3         3         3         3         3         3<!--</td--><td>GEUPOIFNTIAL TEMPERATURE NEL.HUM. AIMU LAT AIR DEWPOINT PERCENT DIRECTION TEGREES CENTIGRADE  11.9 -6.0 28. 336.2  10.5 -7.2 28. 297.6  10.1479.1 51. 247.2  11.1919.1 51. 247.2  11.19110.2 -15.7 42. 255.7  11.19110.2 -19.9 45. 255.7  11.19110.2 -23.7 44. 245.2  11.19124.0 -25.3 67. 241.8 52.  11.19220.7 -25.3 67. 241.8 52.  11.19220.7 -25.5 67. 241.8 52.  11.19220.7 -25.5 67. 241.8 52.  11.19231.4 -34.2 76. 241.8 52.  11.19248.6 -42.8 66. 244.4 77.  11.19248.6 -42.8 66. 244.4 77.  11.19248.6 -53.5 25.7 71.  11.193.0 -53.2 22.7 71.  11.194.0 -53.2 22.7 241.3 10.  11.19563.2 -63.2 22.1 20.0  11.19660.4 250.4 -60.4</td><td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIML DATA AIR DEWPOINT PERCENT BEGREES CENTIGRADE DIRECTION ABORDS 11.9 -6.0 28. 330.2 ABORDS 10.5 -7.2 28. 297.6 28. ABORDS 10.5 -7.6 33. 240.7 297.6 19. ABORDS 10.5 -7.6 33. 240.7 297.6 19. ABORDS 10.5 -7.6 33. 240.7 240.7 19. ABORDS 10.5 -7.6 33. 240.7 240.7 19. ABORDS 10.5 -7.6 34. 255.7 240.8 52. ABORDS 10.5 -20.7 -25.3 67. 241.8 52. ABORDS 10.5 -63.5 67. 241.8 52.7 77.0 240.8 -58.4 -42.8 66. 244.4 77.5 77.0 240.8 -58.4 -42.8 66. 255.7 71.0 295.7 19.0 295.7 10.0 595.0 -63.5 6.0 240.8 250.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 1</td><td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AINU DATA  AIR DEWPORNT PERCENT DIACTION  4878. 11.9 -6.0 28. 330.2  6539. 10.5 -7.2 28. 297.8 2  101473 -9.1 51. 240.7 19  101474.8 -15.8 19. 240.7 240.0  1041944.8 -15.7 44. 245.5 24  1042010.2 -13.7 44. 245.2 24  1042010.2 -23.7 44. 245.2 24  1042010.2 -25.3 67. 241.8 52  1042020.7 -25.3 67. 241.8 52  1042031.4 -42.8 66. 244.4 77  2424054.0 -56.4 56. 240.4 77  1042057.4 -24.8 66. 244.4 77  1042057.4 25.5 67. 241.4 77  1042057.4 26.6 25.0 12  1052063.5 22  1060061.7 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20</td><td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AINU LAT  AIR DEWPOINT PERCENT  11.9 -6.0 28. 330.2  11.9 -7.2 28. 297.8  12.117.2 28. 297.8  12.117.2 28. 297.8  12.117.2 28. 297.8  14.19416.8 19. 240.7  16.2010.2 -15.8 19. 240.7  16.42010.2 -15.8 19. 240.7  16.42010.2 -15.7 44. 245.8  16.42010.2 -25.3 67. 241.8  16.42010.2 -25.3 67. 241.8  18.1924.0 -25.3 67. 241.8  18.1924.0 -25.3 67. 241.8  18.1944.8 -42.8 66. 244.4  18.25053.4 -42.8 66. 244.4  18.25063.5  18.27363.2 22  18.273</td><td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU LAT AIR DEWPOINT PERCENT  4878. 11.9 -6.0 28. 336.6  1 6539. 10.5 -7.2 28. 297.8 26  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 247.5 70  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td></td> | GEUPOTFNTIAL         TEMPERATURE         NEL.HUM.         AIMU DAT           FEET         DEMPOINT         PERCENT         DIRECTION           1         DEMPOINT         PERCENT         DIRECTION           1         DEMPOINT         PERCENT         DIRECTION           1         DEMPOINT         PERCENT         DIRECTION           1         B278.         11.9         -6.0         28.         297.6         2           1         B273.         10.5         -7.2         28.         297.6         2           1         B273.         19.         247.2         24         2         2           1         B114.         -4.8         -15.7         42.         24         2         2         2           1         B112.         -4.8         -15.7         42.         255.3         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         3         2         3         2         3         3         3         3         3         3         3         3         3 </td <td>GEUPOIFNTIAL TEMPERATURE NEL.HUM. AIMU LAT AIR DEWPOINT PERCENT DIRECTION TEGREES CENTIGRADE  11.9 -6.0 28. 336.2  10.5 -7.2 28. 297.6  10.1479.1 51. 247.2  11.1919.1 51. 247.2  11.19110.2 -15.7 42. 255.7  11.19110.2 -19.9 45. 255.7  11.19110.2 -23.7 44. 245.2  11.19124.0 -25.3 67. 241.8 52.  11.19220.7 -25.3 67. 241.8 52.  11.19220.7 -25.5 67. 241.8 52.  11.19220.7 -25.5 67. 241.8 52.  11.19231.4 -34.2 76. 241.8 52.  11.19248.6 -42.8 66. 244.4 77.  11.19248.6 -42.8 66. 244.4 77.  11.19248.6 -53.5 25.7 71.  11.193.0 -53.2 22.7 71.  11.194.0 -53.2 22.7 241.3 10.  11.19563.2 -63.2 22.1 20.0  11.19660.4 250.4 -60.4</td> <td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIML DATA AIR DEWPOINT PERCENT BEGREES CENTIGRADE DIRECTION ABORDS 11.9 -6.0 28. 330.2 ABORDS 10.5 -7.2 28. 297.6 28. ABORDS 10.5 -7.6 33. 240.7 297.6 19. ABORDS 10.5 -7.6 33. 240.7 297.6 19. ABORDS 10.5 -7.6 33. 240.7 240.7 19. ABORDS 10.5 -7.6 33. 240.7 240.7 19. ABORDS 10.5 -7.6 34. 255.7 240.8 52. ABORDS 10.5 -20.7 -25.3 67. 241.8 52. ABORDS 10.5 -63.5 67. 241.8 52.7 77.0 240.8 -58.4 -42.8 66. 244.4 77.5 77.0 240.8 -58.4 -42.8 66. 255.7 71.0 295.7 19.0 295.7 10.0 595.0 -63.5 6.0 240.8 250.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 1</td> <td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AINU DATA  AIR DEWPORNT PERCENT DIACTION  4878. 11.9 -6.0 28. 330.2  6539. 10.5 -7.2 28. 297.8 2  101473 -9.1 51. 240.7 19  101474.8 -15.8 19. 240.7 240.0  1041944.8 -15.7 44. 245.5 24  1042010.2 -13.7 44. 245.2 24  1042010.2 -23.7 44. 245.2 24  1042010.2 -25.3 67. 241.8 52  1042020.7 -25.3 67. 241.8 52  1042031.4 -42.8 66. 244.4 77  2424054.0 -56.4 56. 240.4 77  1042057.4 -24.8 66. 244.4 77  1042057.4 25.5 67. 241.4 77  1042057.4 26.6 25.0 12  1052063.5 22  1060061.7 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20</td> <td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AINU LAT  AIR DEWPOINT PERCENT  11.9 -6.0 28. 330.2  11.9 -7.2 28. 297.8  12.117.2 28. 297.8  12.117.2 28. 297.8  12.117.2 28. 297.8  14.19416.8 19. 240.7  16.2010.2 -15.8 19. 240.7  16.42010.2 -15.8 19. 240.7  16.42010.2 -15.7 44. 245.8  16.42010.2 -25.3 67. 241.8  16.42010.2 -25.3 67. 241.8  18.1924.0 -25.3 67. 241.8  18.1924.0 -25.3 67. 241.8  18.1944.8 -42.8 66. 244.4  18.25053.4 -42.8 66. 244.4  18.25063.5  18.27363.2 22  18.273</td> <td>GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU LAT AIR DEWPOINT PERCENT  4878. 11.9 -6.0 28. 336.6  1 6539. 10.5 -7.2 28. 297.8 26  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 247.5 70  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> | GEUPOIFNTIAL TEMPERATURE NEL.HUM. AIMU LAT AIR DEWPOINT PERCENT DIRECTION TEGREES CENTIGRADE  11.9 -6.0 28. 336.2  10.5 -7.2 28. 297.6  10.1479.1 51. 247.2  11.1919.1 51. 247.2  11.19110.2 -15.7 42. 255.7  11.19110.2 -19.9 45. 255.7  11.19110.2 -23.7 44. 245.2  11.19124.0 -25.3 67. 241.8 52.  11.19220.7 -25.3 67. 241.8 52.  11.19220.7 -25.5 67. 241.8 52.  11.19220.7 -25.5 67. 241.8 52.  11.19231.4 -34.2 76. 241.8 52.  11.19248.6 -42.8 66. 244.4 77.  11.19248.6 -42.8 66. 244.4 77.  11.19248.6 -53.5 25.7 71.  11.193.0 -53.2 22.7 71.  11.194.0 -53.2 22.7 241.3 10.  11.19563.2 -63.2 22.1 20.0  11.19660.4 250.4 -60.4 | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIML DATA AIR DEWPOINT PERCENT BEGREES CENTIGRADE DIRECTION ABORDS 11.9 -6.0 28. 330.2 ABORDS 10.5 -7.2 28. 297.6 28. ABORDS 10.5 -7.6 33. 240.7 297.6 19. ABORDS 10.5 -7.6 33. 240.7 297.6 19. ABORDS 10.5 -7.6 33. 240.7 240.7 19. ABORDS 10.5 -7.6 33. 240.7 240.7 19. ABORDS 10.5 -7.6 34. 255.7 240.8 52. ABORDS 10.5 -20.7 -25.3 67. 241.8 52. ABORDS 10.5 -63.5 67. 241.8 52.7 77.0 240.8 -58.4 -42.8 66. 244.4 77.5 77.0 240.8 -58.4 -42.8 66. 255.7 71.0 295.7 19.0 295.7 10.0 595.0 -63.5 6.0 240.8 250.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 1 | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AINU DATA  AIR DEWPORNT PERCENT DIACTION  4878. 11.9 -6.0 28. 330.2  6539. 10.5 -7.2 28. 297.8 2  101473 -9.1 51. 240.7 19  101474.8 -15.8 19. 240.7 240.0  1041944.8 -15.7 44. 245.5 24  1042010.2 -13.7 44. 245.2 24  1042010.2 -23.7 44. 245.2 24  1042010.2 -25.3 67. 241.8 52  1042020.7 -25.3 67. 241.8 52  1042031.4 -42.8 66. 244.4 77  2424054.0 -56.4 56. 240.4 77  1042057.4 -24.8 66. 244.4 77  1042057.4 25.5 67. 241.4 77  1042057.4 26.6 25.0 12  1052063.5 22  1060061.7 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20 | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AINU LAT  AIR DEWPOINT PERCENT  11.9 -6.0 28. 330.2  11.9 -7.2 28. 297.8  12.117.2 28. 297.8  12.117.2 28. 297.8  12.117.2 28. 297.8  14.19416.8 19. 240.7  16.2010.2 -15.8 19. 240.7  16.42010.2 -15.8 19. 240.7  16.42010.2 -15.7 44. 245.8  16.42010.2 -25.3 67. 241.8  16.42010.2 -25.3 67. 241.8  18.1924.0 -25.3 67. 241.8  18.1924.0 -25.3 67. 241.8  18.1944.8 -42.8 66. 244.4  18.25053.4 -42.8 66. 244.4  18.25063.5  18.27363.2 22  18.273 | GEUPOTFNTIAL TEMPERATURE NEL.HUM. AIMU LAT AIR DEWPOINT PERCENT  4878. 11.9 -6.0 28. 336.6  1 6539. 10.5 -7.2 28. 297.8 26  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 245.2 21  1 121113 -9.1 51. 247.5 70  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

| VEODETIC COOKDINATES<br>32-44043 LAT DEG<br>106-37033 LON DEG                     |   |        |        |                            |        |         |         |         |         |         |         |         |
|---|---|--------|--------|----------------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| ATA   | REL.INM.<br>PERCENT                                 | 55.0   | 37.0   | 000                        | 19.0   | 22.0    | 56.0    | 24.0    | 31.0    | 43.0    | 23.0    | 0.0*    |
| SIGNIFICANT LEVLL DATA<br>32700-0586<br>WHITE SANDS<br>TABLE 9                    | TEMPERATURE<br>AIR DEMPOINI<br>DEGREES CENTIGHAUE   | .1     | -3.0   | -5-1                       | -15.9  | -15.5   | -11.7   | -12.8   | -19.9   | -20.9   | -29.5   | -25.7   |
| SIGNIFIG<br>35<br>WHI<br>TAI  | TEMPI<br>AIR<br>Degrees                             | 9.6    | 11.1   | 10<br>20<br>20             | 9.0    | £ • 3   | N.#-    | -5.0    | -5.5    | -10.8   | -12.8   | -15.2   |
| ist.  | PRESSURE GFOMETRIC<br>ALTITUDE<br>ILLIBARS MSL FEET | 3989.0 | 4320.3 | 4 7 8 9 . 4<br>6 7 0 0 0 0 | 9442.3 | 10160.1 | 13278.6 | 13664.4 | 14214.0 | 16432.4 | 17594.8 | 18813.2 |
| 9.rû FEET #<br>83n HRS MSI  | PRESSURE<br>MILLIBARS                               | 878.4  | 867.A  | 850.0<br>792.7             | 719.0  | 700.0   | 621.8   | 612.6   | 599.7   | 540.8   | 525.A   | 500.6   |
| STATION ALFITURE 3989.00 FEET MSL<br>23 NOV. 82 CR3n HRS MST<br>ASCENSION NO. 586 |   |        |        |                            |        |         |         |         |         |         |         |         |
| STATIC<br>23 NO<br>ASCEN  |   |        |        |                            |        |         |         |         |         |         |         |         |

| TATION ALITY<br>3 HOV. HZ<br>SCENSIUN HO. | ULE 35    | /89.n() FF£1 Ki<br>083n HRS MST | 1 HSL<br>HS1 |          | UPPER AIR UMTA<br>3270020586<br>WHITE SANDS | บ <sub>∧</sub> 1A<br>ช่<br>บ๊ะ |              | •E0DETI<br>32•<br>106• | GEODETIC COMMUNATES<br>32-40043 LAT DEG<br>106-37033 LON DEG |
|---|-----------|---------------------------------|--------------|----------|---|--------------------------------|--------------|------------------------|--|
| EOMETRIC                                  | PRESSURE  | TENP                            | TEMPERATURE  | REL.HUM. | DENSITY                                     | Streen of                      | WING DATA    | . VI.                  | INJEX  |
| L11100£                                   |           | AIA                             | DEWPOINT     | PERCENT  | SM/CUBIC                                    | Sollad                         | UIRECTION    | SPEED                  | <b>5</b>   |
| יי דור                                    | HILLIUARS | DEGREES                         | CENTIGRADE   |          | METER                                       | KNOTS                          | DEGREES (IN) | KNOTS                  | REFRACT 101  |
| 39A9.n                                    | 870.4     | 8.6                             | •1           | 55.0     | 1083.2                                      | 654·B                          | 355.0        | 2.9                    | 1.000271   |
| 4000                                      | 870.0     | 8.7                             | 0            | 54.4     | 1082.5                                      | 624 • 9                        | 355.0        | 2.9                    | 1.000270   |
| 4500.0                                    | 862.1     | 11.5                            | -3.5         | 34.3     | 1052.9                                      |                                | 355.7        | 2.3                    | 1 - 000257   |
| 5000.0                                    | 9*1780    | 12.2                            | T-4-7        | 30.3     | 1031.4                                      |                                | 556.9        | 1.7                    | 1.000250   |
| 020U-0                                    | 631.3     | 11.5                            | 8.4-         | 31.6     | 1015.3                                      | 6-229                          | 359.5        | 1.1                    | 1.000246   |
| C.0000                                    | 810.2     | 10.8                            | 6.4-         | 32.9     | 946.5                                       |                                | <b>†•0</b>   | 9.                     | 1.000243   |
| 6200-9                                    | 301.5     | 0.0                             | ٠٠٠          | 34.2     | 943.9                                       |                                | 7.66         | -                      | 1.000239   |
| V.000/                                    | 6000      | ٠.<br>و و                       | -2.8         | 33.8     | 9-896                                       |                                | 521.3        | 2.5                    | 1.000235   |
| 7500.0                                    | 72.5      | 9.8                             | -7.6         | 30.8     | 953.5                                       | 654 • 5                        | 254 · B      | 6.3                    |  |
| 0.0000                                    | 750.3     | 7.9                             | 9•6-         | 27.7     | 938.5                                       | 653.6                          | 9,562        | 10.1                   | 1.000223   |
| 8500.C                                    | 744.5     | 7.2                             | -11.6        | 24.7     | 923.B                                       |                                | 253.0        | 12.8                   |  |
| 9000                                      | 730.8     | 6.5                             | -13.8        | 21.7     | <b>h•606</b>                                |                                | 251.5        | 15.4                   |  |
| 9500.                                     | 11/2      | 8 i                             | -15.9        | 19.2     | 895.2                                       |                                | 8.642        | 17.9                   | 1.000208   |
| 100001                                    | 2.50,     | / • •                           | -12.6        | 21.3     | 882.2                                       |                                | 247.5        | 19.1                   | 1.000205   |
| 0.00001                                   | u · Tio   | # * P                           | # · # ·      | 25.7     | 869.6                                       | _                              | 742.6        | 20.3                   | 1.000204   |
| 11000-0                                   | C•9/u     | 2.0                             | -13.3        | 31.2     | 857.4                                       |                                | 245.8        | 21.2                   | 1.000202   |
| 11200-0                                   | 000       | •                               | -12.5        | 36.6     | 845.5                                       |                                | 547.5        | 21.8                   | 1.000200   |
| 12000.0                                   | 052.      |                                 | -12.0        | 42.1     | 833.7                                       |                                | 7.647        | 22.3                   | 1.000198   |
| 1<500.0                                   | 0.00      | -2.2                            | -11.8        | 47.5     | 822-1                                       |                                | 250.3        | 22.9                   | 1.000196   |
| 1.000c1                                   | 1.020     | U.S.                            | -11.7        | 53.0     | 810.7                                       |                                | 251.5        | 23.4                   | 1.000194   |
| 13500.                                    | 010       | \                               | -12.4        | 54.9     | 798.9                                       |                                | 252.5        | 23.9                   | 1.000190   |
| 0.00047                                   | 1000      |                                 | -16.8        | 0.04     | 785.7                                       |                                | 253.1        | 24.7                   | 1.000184   |
| 14500.0                                   | C+960     | N .                             | 6.61-        | 32.5     | 773.2                                       |                                | 7.567        | 25.5                   | 1.000179   |
| 150001                                    | 5.186     | 4.7-                            | -20-1        | 35.3     | 761.0                                       | _                              | 255.9        | 26.4                   | 1.000176   |
| 12204.0                                   | 2.070     | 9.9-                            | -20•3        | 38.0     | 750.2                                       |                                | 255.3        | 27.6                   | 1.000174   |
| 16999                                     | 2.830     | -9-8                            | -20.6        | 40.7     | 739.0                                       |                                | 252.8        | 28.8                   | 1.000171   |
| 16509.0                                   | 0 - D + C | 6-01-                           | -21.3        | 41.8     | 727.9                                       |                                |              |                        |  |
| ו /שטעים                                  | 53/65     | -11.8                           | -54.7        | 33.2     | 716.0                                       | 630.0                          |              |                        | 1.000164   |
| n-00c/1                                   | 0.750     | -15.6                           | •            | 24.6     | 704.4                                       | 6-829                          |              |                        | 1,000160   |
| 10000                                     | 9.016     | -13.6                           | -27.9        | 28.7     | 693.0                                       | 9                              |              |                        | 1.900158   |
| 18500.3                                   | 2000      | 9.41                            | 1.92-        | 35.6     | 681.8                                       | 620.6                          |              |                        | 1.000156   |

| 117 <sup>13</sup> JL 3989.00 Fr <sub>I</sub> T MSL<br>1830 HRG NST<br>10. 386 | r MSL<br>N.S.1        |         | MANDATORY LEVELS<br>3270020580<br>WHITE SANDS<br>TABLE 11 |           |              | veodetic courdinati<br>32-40043 Lat d<br>106-37033 Lon d |
|---|-----------------------|---------|---|-----------|--------------|--|
| PRESSURE O  | PRESSURE CEOPOTENTIAL | L TEM   | TEMPERATIJRE<br>D DEMPOTAT                                | HEL. HUM. |              | NA<br>SPEED  |
| MILLIPARS   | FEET                  | DEGREES | DEGREES CENTIGRADE  |           | ,EGALES (TN) | KNOTS  |
| 0.50  | 4896.                 | 12.4    | -4-7  | 30•       | 350.5        | 1.9  |
|   |                       | 0.01    | -5.0  | 34.       |              |  |
| C = 000C  | 8297                  |         | -10.8   | 20.       |              | 8-11   |
| 0.007   |                       | E • 3   | -15.5   | 22•       | 240.9        | 1.9•5  |
| 0.00%   |                       | -1.1    | -12.0   | 43.       |              | 22.5   |
| 0.009   | 14184.                | -5.5    | -19.1   | 34.       |              | 25.0   |
| 0.00 k  |                       | -10.8   | 6-02-   | 40.       |              |  |
| 500°C   |                       | -15.2   | -52.1   | •         |              |  |

| SIGNIFICANT LEVEL DATA 3270020587 | WHITE SANDS             | TABLE 12          |
|-----------------------------------|-------------------------|-------------------|
| STATION ALTITUDE 3989.00 FFET HSL | 23 HOV. 62 LOUR HRG HST | ASCENSION NO. 307 |

GEODETIC COUNDINATES 32.40043 LAT DEG 106.57033 LON DEG

| REL.HUM.<br>PERCENT  | 41.0   | 34.0   | 32.0   | 30.0   | 33.0   | <b>*0.0</b> | 24.0   | 34.0    | 58.0    | 24.0        | 42.0    | 44.0    | 25.0    |
|--|--------|--------|--------|--------|--------|-------------|--------|---------|---------|-------------|---------|---------|---------|
| T <sub>E</sub> MPERATURE<br>IR DEWPOIN!<br>REES CENTIGRAUE | 1.6    | -3.4   | -3.6   | 9.4-   | 8.4-   | 8.4         | -12.8  | -10.1   | -13.6   | 6.61-       | -18.9   | -24.0   | -31.1   |
| TEMPE<br>AIR<br>DEGREES                                    | 14.7   | 12.0   | 12.6   | 12.5   | 10.8   | <b>8•</b> 0 | 6.2    | D. 4    | -6.7    | <b>-6.7</b> | -8.3    | -14.5   | -15.6   |
| GFOMETRIC<br>ALTITUDE<br>MSL FEET                          | 3989.0 | 4624.9 | 4914.7 | 5286.5 | 6293.3 | 7668•6      | 9.1906 | 10186.2 | 14402.8 | 14767.3     | 15483.0 | 18045.9 | 18838.9 |
| PRESSURE<br>FILLI.ARS                                      | 879.N  | 829°0  | 85ŋ.n  | 83A.6  | 80A.4  | 768.6       | 729.8  | 700°C   | c.      | 587.6       | 571.4   | 516.2   | 500.0   |

| STAFION ALTIT<br>23 NOV. B2<br>ASCENSION NO. | TITURE 39             | 89°10 FEFT MSL<br>100°11RS MST | T MSL<br>MST                                    |                     | UPPER AIR DAI<br>327002USB/<br>WHITE SANDS<br>TABLE 13 | 0 1 A                |                           | 0E0DETIC<br>32.40<br>106.3 | DLTIC COOMMINATES<br>32-40043 LAT DEG<br>106-37033 LON DEG |   |
|--|-----------------------|--------------------------------|---|---------------------|--|----------------------|---------------------------|----------------------------|--|---|
| GEUNETRIC<br>ALTITUDE<br>MSL FEE(            | PRESSURE<br>MILLIDARS | TEMP<br>AIR<br>DECREES         | TEMPENATURE<br>AIR DEMPOINT<br>FREES CENTIGRADE | REL.HIM.<br>PERCENT | DENSITY<br>GM/CURIC<br>METER                           | SFEED OF SOUND KNOTS | WIND DATA<br>UIRECTION SI | SPEED KNOTS                | INUEX<br>OF<br>MEFRACTION                                  |   |
| 3989.0                                       | N-678                 | 14.7                           | 1.6   | 41.0                | 1060.7   | 66199                | 0.06                      | 2.9                        | 1.000268   |   |
| \$ 000t                                      | 870.7                 | 14.7                           | 1.5   | 40.9                | 1060.4   | 661.9                | 3.04                      | 2.9                        | 1.100267   |   |
| 4500.0                                       | 862.9                 | 12.5                           | 10.0  | 35.4                | 1049.9   |                      | 109.2                     | 3.4                        | 1.000258   |   |
| 2.0003                                       |                       | 12.6                           | -3.8  | 31.5                | 1031.0   |                      | 155.1                     | 4.2                        | •  |   |
| 5500.0                                       |                       | 15.1                           | 9.4-  | 30.6                | 1014.1   |                      | 150.6                     | 5.1                        | 1.000240   |   |
| 60000  |                       | 11.3                           | 2.4-7   | 32.1                | 998.7  |                      | 150.7                     | 6.1                        | 1.000243   |   |
| 6500.A                                       |                       |                                |   | 34.1                | 983.6  | 9•969                | 7•I+T                     | 7.1                        | 1.000239   |   |
| 7000-0                                       |                       | <b>7.6</b>                     | L-4-  | 36.6                | 969.3  | 055.5                | 146.1                     | 7.7                        | 1.000236   |   |
| 7509.0                                       |                       | 8.3                            | L-4-  | 39. I               | 955.1  |                      | 163.4                     | 9.9                        | 1.000233   |   |
| 90000  |                       | 7.6                            | 16.4  | 36.2                | 4.046  | 653.                 | 165.3                     | 6.2                        | •  |   |
| 8500.0                                       |                       | 6•9                            | -9.5  | 30.5                | 925.6  | 652.5                | 210.9                     | 7.3                        | 1.000221   |   |
| 9000   |                       | 6.3                            | -12.4   | 24.8                | 911.0  | 9.159                | 229.1                     | 10.0                       | 1.000214   | • |
| 95gn.n                                       |                       | 5.5                            | -11.6   | 27.9                | 890.7  | 650.7                | 0.667                     | 13.3                       | 1.000212   |   |
| 10000.0                                      |                       | 4.6                            | -10.5   | 32.3                | 882.7  | 8.649                | 239.7                     | 15.5                       | 1.000210   |   |
| 10500.0                                      |                       | 3.5                            | -10.2   | 35.8                | 869.7  | _                    | 7.0.7                     | 17.6                       | 1.900208   |   |
| 11000.0                                      |                       | 2•2                            | +-01-   | 38.6                | 857.3  | 640.9                | 240·3                     | 19:1                       | •  |   |
| 11500.0                                      |                       | 6.                             | -10.7   | 41.5                | 845.1  | D45.4                | 240.1                     | 19.5                       | 1.000202   |   |
| 12000-0                                      |                       | <b>†•</b> •                    | -11-1   | £4.3                | 833.1  | 8.549                | 740.0                     | 19.9                       | 1.000199   |   |
| 12500.0                                      | 6•049                 | -1.7                           | -11.5   | 47.2                | 821.3  |                      | 8.04Z                     | 20.3                       | 1.000196   |   |
| 15000.0                                      |                       | -3.0                           | -12.0   | 50.0                | 809.7  |                      | 242.2                     | 20.7                       | 1.000193   |   |
| 13500.0                                      | 610.9                 | 6.4-                           | -12.5   | 52.9                | 798.3  | 639.2                | 243.5                     | 21.2                       | 1.000190   |   |
| 14000.0                                      |                       | -5.6                           | -13.1   | 55.7                | 787.1  | 637.0                | Z+#+2                     | 22.0                       | 1.000187   |   |
| 14500.0                                      | _                     | -6.7                           | -15.0   | 51.6                | 775.3  | _                    | 242•B                     | 22.8                       | 1.000163   |   |
| 15000.0                                      |                       | -7.2                           | -10.5   | 36.6                | 762.1  |                      | 247.0                     | 23.5                       | 1.000177   |   |
| 15569.0                                      | 571.0                 | -6.3                           | -18.4   | 42.0                | 750.5  |                      | 248.3                     | 24.3                       | .00017   |   |
| lenno.c                                      |                       | -9.6                           | -19.9   | <b>\$5.0</b>        | 739.2  |                      | 9.647                     | 25.0                       | 1.000172   |   |
| 10500.0                                      | 540.0                 | -10.8                          | -20.9   | 42.8                | 728.1  |                      |                           |                            | 1.000169   |   |
| 17000.0                                      | 530.1                 | -12.0                          | -21.9   | 41.2                | 717.1  |                      |                           |                            | 1.000166   |   |
| 17590.0                                      | 527.5                 | -13.2                          | -22.9   | 43.6                | 706.4  | 628.4                |                           |                            | 1.000163   |   |
| 16000.0                                      | 517.1                 | 4.41-                          | -23.9   | 0.44                | 9-569  | 650.9                |                           |                            | 1.000160   |   |
| 18500.6                                      | 5uu•9                 | -15.1                          | -27.7   | 33.1                | 684 • 0  | 6529                 |                           |                            | 1.000156   |   |
|  |                       |                                |   |                     |  |                      |                           |                            |  |   |

| T MSL   | •             |
|---|---------------|
| STALLON ALTITUDE 3989-60 FF;T MSL<br>23 100* 82 |               |
| 1 <sup>1</sup> / <sub>1</sub> 0.6. 398          | 587           |
| 4 ALTI1   | ASCENSION NO. |
| STA1101   | ASCERS        |

| 9EODETI<br>32•<br>106•                                     | WIND LAIA<br>CTION SPEED<br>ES(IN) KNOTS          | 7     |       | _     | 16.3   |          | 24.3   |          |          |
|--|---|-------|-------|-------|--------|----------|--------|----------|----------|
|  | WIND DIRECTION                                    | 120.2 | 141.5 | 201.5 | 239.9  | 239.9    | 245.2  |          |          |
| EVELS<br>57<br>JS  | HEL.HUM.<br>PERCENT                               | 32.   | 94.   | 32.   | 34.    | 45.      | 57.    | ع<br>درع | 200      |
| MAIICATOPY LEVELS<br>3270020567<br>WHITE SANDS<br>TABLE 14 | TEMPERATURE<br>AIR DEWPOINT<br>DEGREFS CENTIGRADE | -3.6  | -4.7  | -8.2  | -10.1  | -11.2    | -13.3  | 8-02-    | -41.1    |
| Σ  | TEMP<br>AIR<br>DEGREES                            | 12.6  | 10.2  | 7.1   | 4.3    | æ :      | -6.2   | -10.6    | -15.6    |
| . KISL<br>ST   | PRESSURE GEOPOTENTIAL                             | :     | 6574. | 8324. | 10176. | 121.37.  | 14214. | 16432.   | 1 Aut 3. |
| J89.60 FF; T FISL<br>JAGA HRS NST                          | PRESSURE GE<br>1LLIPAKS                           | R50•€ | A00.0 | 750.n | 700·u  | 6.50 · n | 600°   | 5,50 · n | 0.00.1   |

# FILW 2-83